

KANTOREK, Rudolf, Prim. dr.

Jejuno-jejunal intussusception. Cesk. roentg. 10 no.3:
104-106 Aug 56.

1. Z ustr. roentgen. oddel. nemocnice OUMZ v Ostrave I.
(JEJUNUM, neoplasm
polyp, pedunculated, causing jejuno-jejunal
intussusception)
(POLYPI
jejunum, causing jejuno-jejunal intussusception)
(INTUSSUSCEPTION, etiol. and pathol.
jejuno-jejunal, caused by pedunculated polyp of jejunum.)

KANTORER, I.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE VEGETALE. No. 6, 1958.

KANTORER, I. Determination of fat in confectionery products. Tr. from the Russian.
p. 18.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

KAMFORER, I, Ye,

Production of acid dextrin from waste products of the flour
milling and macaroni industries. Sakh. rpm. 35 no. 1:66-68
Ja '61. (MIRA 14:1)

(Dextrin)

(Starch industry--By-products)

KANTORER, M. K.

114

Pharmacology of Ichthyol. M. K. Kantorer. *Farma-
kol. i Tekstil.* 6, No. 6, 42-3 (1943).-- Effects of Ichthyol
were observed on isolated frog legs (Trendelenburg-Pisem-
skii), isolated frog heart (Straub-Fuhrer), strips of white
mouse intestine (Magnus) and live dogs (blood pressure
measurements). Ichthyol solns. at the stated concns.
had the following effects: 0.1-2%, vasoconstriction in
frog leg; 0.1%, arrhythmia and lowered systolic in frog
heart; 0.2-0.4%, cessation of diastole in frog heart;
0.03 to 0.1%, lowered tonus in strips of white mouse in-
testine; 0.025 to 0.15 (unit not stated) per kg. body
wt., intravenously in dogs, transitory drop in blood pres-
sure quickly followed by a larger rise above normal.
Julian F. Smith

A S T M A METALLURGICAL LITERATURE CLASSIFICATION

E I S O M S O M I A R R

KANTORER, S.

Technological progress in construction. Vop. ekon. no.9:86-95
S '63. (MIRA 16:9)
(Construction industry--Technological innovations)

GIROVSKIY, V.F., nauchnyy rabotnik; KANTORER, S.B., nauchnyy rabotnik; SHASS, M. Ye., nauchnyy rabotnik; D'YAKOVA, M.V., nauchnyy rabotnik; BABENKO, A.P.; VOLPYANSKIY, S.Ya.; MERZLYAK, G.N.

[Socialist competition for cost reduction in construction work] Sotsialisticheskoe sorevnovanie za snizhenie stoimosti stroitel'nykh rabot. [Avtorskii kollektiv: V.F.Girovskii i dr.] Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 55 p. (MLRA 6:7)

1. Mosshilstroy trest (for Babenko, Volpyanskiy, Merzlyak). 2. Kafedra Organizatsii i planirovaniya stroitel'nogo proizvodstva MIBI imeni S.Ordshonikidse. 3. Moskovskiy inzhenerno-ekonomicheskiy institut imeni S.Ordshonikidse (for Girovskiy, Kantorer, Shass, and D'yakova).
(Construction industry--Costs)

KANTORER, S. YE.

Social Sciences

Metody opredeleniia sebestomosti mekhanizirovannykh stroitel'nykh robot (Methods of determining the cost of mechanized construction projects). (Moskva). Stroiizdat. 1950

Monthly List of Russian Accessions, Library of Congress July 1952 UNCLASSIFIED

KANTOREV, S. Ye

Sebestoimost'mekhanizirovannykh rabot i proizvoditel'nost' mashin v stroitel'stve
(Cost of mechanized work and productivity of machines in construction) 2 izd. perer.
i dopol. Moskva, Gos. Izd-vo Literatury po Stroitel'stvu i Arkhitekture, 1952.
495 p. tables, diagrs.
"Literatura": p. (492)

N/5
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1952

KANTORER, S. E.

Sebestoimost' mekhanizirovannykh rabot i proizvoditel'nost' machin v stroitel'stve
[Cost of mechanized work and the productivity of machines in the building
industry. 2-e izd. Moskva, Gos. izd-vo lit-ry po stroit-vu i arkh-re, 1952.
496 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 8 November 1953

SAVYATSEV, V.A.; KAPTOBE, S.Ya., kandidat tekhnicheskikh nauk, redaktor;
KUTSENOVA, A.A., redaktor; DAKHOV, V.S., tekhnicheskii redaktor

[Socialist competition for speeding up and making cheaper the
construction of the Kuybyshev Hydroelectric Power Station]
Sotsialisticheskoe sorevnovanie za uskorenie i udeshevlenie
stroitel'stva na Kuybyshevskoi Gidrostantsii. Moskva, Gos. izd-vo lit-ry
po stroit. i arkhitekture, 1954. 80 p. (MLRA 8:1)
(Socialist competition) (Kuybyshev Hydroelectric Power
Station)

KANTORER, S.Ye., kandidat tekhnicheskikh nauk; **MAZUR, M.P.**, inzhener;
SUMNEVICH, L.I., dotsent, redaktor; **REBUAK, B.A.**, redaktor;
PERSON, M.N., tekhnicheskii redaktor

[Organizing and mechanizing the building of dwellings] Organi-
zatsiia i mekhanizatsiia stroitel'stva zhilykh zdanii. Moskva,
Oos. isd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 498p.
(Building) (MIRA 9:3)

AID P - 3198

Subject : USSR/Hydraulic Engineering

Card 1/1 Pub. 35 - 2/19

Authors : Kantorer, S. E., Kand. Tech. Sci. and I. I. Zhageleva, Eng.

Title : Comparing efficiency of automated cyclic and continuously-operating concrete plants

Periodical : Gidr. stori., 5, 5-9, 1955

Abstract : The article gives a description of the layout and operation of automated concrete plants with vertical, sectional concrete mixers with a 1,200 and 2,400 l capacity operating cyclicly. A comparison is made with the type of concrete plant which operates continuously and reportedly with greater efficiency. Tables and graphs with data on the latter are given. The authors strongly recommend wider use of the continuously-operating concrete plants at constructions. Three diagrams.

Institution : None

Submitted : No date

KAPTORER, S. Ye., kandidat tekhnicheskikh nauk

Make more effective use of lift capacity of cranes in housing
construction. Mekh. trud. rab. 9 no.7:13-16 J1 '55.
(Cranes, derricks, etc.) (MLBA 8:9)

SEMKOVIKIY, V.V.; SHAFRANSKIY, V.N.; KANTORER, S.Ye., kandidat tekhnicheskikh nauk, redaktor; DAKHNOV, V.S., ~~tekhnicheskii~~ redaktor.

[Complex mechanization of construction work and problems] Kompleksnaya mekhanizatsiya stroitel'nykh rabot i voprosy ee effektivnosti. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1956.174 p.
(Construction industry) (MIRA 9:4)

KANTORER, S. Ye.

KANTORER, S.Ye., kand.tekhn.nauk; KHACHATR'YANTS, I.T., kand.tekhn.nauk;
KUTSENOVA, A.A., kand.ekonom.nauk, red.; MITIN, S.A., red.;
SLEPOV, I.A., red.; USPENSKIY, V.V., red.; SHASS, M.Ye., red.;
EL'KINA, E.M., tekhn.red.

[Over-all mechanisation and labor productivity in the construction industry] Kompleksnaya mekhanizatsiya i proizvoditel'nost' truda v stroitel'stve. Moskva, Gos.isd-vo lit-ry po stroit.i arkhit., 1957. 92 p. (MIRA 11:1)

(Building machinery)

KANTORER, S. YE.

KANTORER, S. Ye., kand.tekhn.nauk, dotsent

Determining the economic efficiency of new machines and versions
of mechanisation in building engineering. Trudy MIBI no.8:188-212
'57. (MIRA 10:12)

(Building machinery)

AUTHOR: Kantorer, S.E. (Candidate of Tech.Sciences). 100-5-7/10

TITLE: Evaluation of the economy and effectiveness of new building machinery. (Otsenka ekonomicheskoy effektivnosti novykh stroitel'nykh mashin).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction), 1957, Vol.14, No.5, pp.18 - 23 (USSR).

ABSTRACT: During the 5-year plan the Soviet Ministry for Building and Roadbuilding Machinery (Ministerstvo Stroitel'nogo i Dorozhnogo Mashinostroyeniya) arranged for the mass production of 435 new building and roadbuilding machines. This production has been increased recently. A technical and economic analysis of the manufactured new machines is essential on the basis of experiences gained during the use of all these types of machines. It is intended to achieve modifications so that higher efficiency and economy could be obtained. For prototypes where no machines of local or foreign make are available the higher efficiency and economy should be evaluated by calculating the saving of labour achieved with the new machinery. The basic factors of analysis are: the cost of production, the production time and the required industrial investment. The most important economic factor is the amortisation figure, which amounts to 15 - 20% of the

Card 1/3

Evaluation of the economy and effectiveness of new building machinery. (Cont.) 100-5-7/10

cost, which decreases with technical advancements. The cost of building- and road-building machines was reduced to one third during the last 6 - 7 years. The cost of labour of the same machine but of later date of production accounts for a price discrepancy of 10 - 15%. Excavators BK-8 and EVG-6 (ЭК-8 and ЭВГ-6) were analysed to ascertain the relationship between production costs and efficiency of the same, as well as the gantry cranes М-3-5-5 and М-3-5-10. Formulae for calculating the economic indices of cost and efficiency are given, as well as for the outlay for mechanised building work carried out by these machines, capital investments and savings in outgoings, etc. Further cranes, BK-215 (БК-215) (viz. Mekh. Stroitel'stva, No. 4, 1956), and BKSM-5M (БКСМ-5М) were investigated with regard to costs and efficiency. It was shown that 6.2 man/hours were lost during the erection of 1 m² of living space by using the crane BKSM-5M and 5.5 man/hours when the crane BK-215 was used. When these figures are related to 1 000 000 m² of living space erected with the aid of new cranes the following savings were achieved: 4.2 million roubles, 700 000 man/hours, 800 000 kW-hours and 110 tons of steel. Only 40

Card 2/3

Evaluation of the economy and effectiveness of new building machinery. (Cont.)
100-5-7/10

cranes are required, which represents a saving of 5.4 million roubles. The constructional weight of 1 000 000 m² of floor area is reduced to 1800 t. and the power consumption to 2864 kW.

There are 4 figures and 4 tables.

AVAILABLE:

Card 3/3

KANFORER, S. Ye., kand.tekhn.nauk; SHAFRANSKIY, V.N., inzh., red.;
HUDAKOVA, N.I., tekhn.red.

[Amortization and the depreciation of machinery in the
construction industry] Amortizatsiya i moral'nyi iznos
mashin v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1959. 90 p. (MIRA 15:2)
(Construction industry--Finance)

KANTORER, S.Ye., kand.tekhn.nauk, dotsent

Methods for evaluating the economic efficiency of new building
machinery. Trudy MIBI no.9:253-278 '58. (MIRA 11:6)
(Building machinery)

KANTORER, S.Ye., kand.tekhn.nauk

Methods for evaluating the economic effectiveness of using
cranes in construction. Mekh.stroi. 17 no.3:23-25 M^r '60.
(MIRA 13:6)

(Cranes, derricks, etc.)

KANTORER, S.Ye., kand.tekhn.nauk

"Building machinery" by A.S.Fidelev. Reviewed by S.E.Kantorer.
Mekh. stroi. 17 no.10:30-31 0 '60. (MIRA 13:10)
(Building machinery) (Fidelev, A.S.)

KANTORER, S.Ye., kand.tekhn.nauk, dotsent

Effect of over-all mechanisation on shortening building time and lowering of costs and labor expended in construction. Trudy MIEI no.15:243-258 '61. (MIRA 14:12)

1. Moskovskiy inzhenerno-ekonomicheskiy institut.
(Building machinery)

KANTORER, Solomon Yevseyevich; SHAFRANSKIY, V.N., red.; MORSKOY, K.L.,
red. izd-va; GOL'BERG, T.M., tekhn. red.

[Methods of proving the efficiency of using machinery in construction] Metody obosnovaniya effektivnosti primeneniya mashin v stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 341 p. (MIRA 14:12)

(Building machinery)

VARENNIK, Ye.I., doktor tekhn.nauk, prof.; KANTORER, S.Ye., kand.tekhn.nauk, dotsent; PARAMUBEK, G.N., kand.tekhn.nauk, dotsent; GALKIN, I.G., kand.tekhn.nauk, dotsent; PETROV, I.A., doktor tekhn.nauk, prof.; VIKHREV, I.D., kand.tekhn.nauk, dotsent; DIKOV, N.D., kand.tekhn.nauk, dotsent; SYRISOVA, Ye.D., kand.tekhn.nauk, dotsent; BRISKMAN, I.A., ekonomist; IL'IN, V.M., inzh., nauchnyy red.; LEYKIN, B.P., ekonomist, nauchnyy red.; SKVORTSOVA, I.P., red.isd-va; GERASIMOVA, G.S., red.isd-va; GOL'BERG, F.M., tekhn.red.; KASIMOV, D.Ya., tekhn.red.

[Organisation and planning in the construction industry] Organizatsiia i planirovanie stroitel'nogo proizvodstva. Moskva, Gos.is'-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 526 p. (MIRA 14:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Varenik).
(Construction industry)

KANTORER, S.Ye., kand.tekhn.nauk

Determining the effectiveness of mechanization. Mekh.stroi. 18.
no.7:23-26 J1 '61. (MIRA 14:7)

(Building machinery)

KANTORER, S.Ye., kand. tekhn. nauk; SHAPFRANSKIY, V.N., inzh., otv. red.;
GERASIMOVA, G.S., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Instructions for analyzing the economic effectiveness of introducing mechanization and automation in construction] Ukazaniya po raschetam ekonomicheskoi effektivnosti vnedreniya mekhanizatsii i avtomatizatsii v stroitel'stve. Moskva, Gosstroizdat, 1962. 133 p.
(MIRA 16:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ekonomiki stroitel'stva.

(Automation) (Construction industry)

KANTORER, S.Ye., kand.tekhn.nauk

"Main principles of the organization of servicing and repairing
construction equipment" by I.A.Luik. Reviewed by S.E.Kanterer.
Mekh.stroi. 19 no.12:26-28 D '62. (MIRA 15:12)
(Construction equipment—Maintenance and repair)
(Luik, I.A.)

VARENİK, Ye.I.; PETROV, I.A., doktor tekhn. nauk; KANTORER, S.Ye.,
doktor ekon. nauk; GALKIN, I.G., doktor ekon. nauk;
PARABEK, G.E., kand. tekhn. nauk; DIMOV, N.D., kand. tekhn.
nauk; VIKHREV, I.D., kand. tekhn. nauk; SYRTSOVA, Ye.D.,
kand. tekhn. nauk; BALIKHIN, M.I., kand. ekon. nauk;
BRISKMAN, I.A., ekonomist

[Organization and planning of construction production] Or-
ganizatsiia i planirovanie stroitel'nogo proizvodstva.
2. izd. [By] E.I.Varenik i dr. Moskva, Stroiizdat, 1965.
531 p. (MIRA 18:2)

KANTORER, S.Ye., prof., doktor ekonom. nauk; ZEL'TSER, R.Ya., inzh.

Reviews and bibliography. Mont. i spets. rab. v stroi. 26 no.8:
32 Ag '64. (MIRA 17:11)

KANTOROV, M. V. (Docent); TROYB, S. G. (Docent)

"Fuels and Combustion Calculations," from the book Metallurgical Furnaces
(Metallurgicheskiye Pechi) Metallurgizdat, 1951.

Candidate of Technical Sciences

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FORWARD WOULD BE FORWARDED UNDER ATOMIA, BUT NOT (1)

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KANTOROV, M. V.

...
Kantorov, M. V. and Sokolov, E. A. (Ural. Politekh. Inst. (Proc. Ural
Polytech. Inst.), 1955, (53), 108-117; abstr. in Ref. Zh. Khim. (Ref. J. Chem.
Moscow), 1956, (16), 5100). In order to improve the operation of gas
generating systems it is necessary to obtain specifications for mixture
conditions to narrow the range of sizes, increase the strength and
to define the ash fusion temperature. ...
... this in turn would lead to improvements ...

fuel 2

KANTOROV, Mikhail Venyaminovich; GURKIN, Igor' Vladimirovich, red.;
KUL'NIK, V.P., red. isd-va.; ZNF, Ye.M., tekhn. red.

[Gas generators and gas producer stations in the metallurgical industry] Gazogeneratory i gazogeneratorsnyye stantsii v metallurgicheskoi promyshlennosti. Sverdlevsk, Gos. nauchno-tekhn. isd-vo lit-ry po chérnoi i tsvetnoi metallurgii, Sverdlevskoe otd-nie, 1958. 467 p. (MIRA 11:11)
(Gas producers)

KANTOROV, N.

How we simplify bank work. Fin. SSSR 21 no.12:66-68 D '60.
(MIRA 13:12)

1. Upravlyayushchiy Stavropol'skim otdeleniyem Stroybanka.
(Stavropol--Banks and banking--Accounting)

CZECHOSLOVAKIA

KLINES, I; KANTOROVA, K; JAHAK, J

Institute of Instrumental Chemical Analysis, Czechoslovak Academy of Sciences, Brno - (for all) (Present address of KLINES, Institute of Organic Chemistry, Purkyně University, Brno)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1967, pp 143-147

"Pikogram processes. Part 1: Color demonstration of some ions in quantities of 10^{-10} to 10^{-13} g."

KANTOROVA, V.

"Two Different Ages of the Puchov Marls." p. 113 (GEOLOGICKY SBORNÍK
Vol. 4, No. 1/2, 1953; Brno, Czech.)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,
April 1955, Uncl..

KANTYKOVA, V.

The so-called Inoceramus crataceous system in the area of Snina. p.52.
(CISLOVACKE PRACE; ZPRAVY, No. 9, 1956, Bratislava, Czechoslovakia.)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, no. 12, December 1957. Incl.

KANTOROVA, V.

"The Miocene in the environs of Presov; a salt formation."

p.402 (Vestnik, Vol. 32, no. 6, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

KANTOROVA, V. ; ~~REDACTED~~

GEOGRAPHY & GEOLOGY

Periodicals : GEOLOGICKE PRACE; ZPRAVY. No. 14, 1958

KANTOROVA, V.; BEGAN, A. The klippenbelt in the wider environs of Pruske; a preliminary report. p. 107

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

KANTOROVA, V. I.

"The Development of Placenta in Cows."

dissertation defended for the degree of Candidate of Biological Sciences at
the Inst. for the Morphology of Animals im A. N. Severtsev.

Defense of Dissertation (Jan-Jul 1957)
Sect. of Biological Sciences
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 117-118

(KL 39, 56)

ANTOROVA, V. I.

USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19059
Author : Kantorova, V.I.
Inst : -
Title : Structural Type of Bovine (*Bos taurus*) Placenta.
Orig Pub : Dokl. AN SSSR, 1957, 112, No 5, 972-975

Abstract : The placenta of 39 heifers of Kazakh breed were investigated beginning with the end of the 1st month to the end of the 9th month of pregnancy, among them 22 dated placenta. Formation of the placenta in cows begins with the 27th day of pregnancy. On the 37th day in the cotyledons the initial villi [?] are formed and in the caruncles septa and crypts appear. Not only the placentoma but also the interplacentomal regions should be considered a cow's placenta. By the end of the second month capillaries appear in the interepithelium of the cotyledon villi [?], the number of which increases especially after the 5th month. In the

Card 1/3

USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19059

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caruncular regions of the maternal placenta surface the capillaries may also be situated beneath the epithelium, but in most cases they are separated from the epithelium by connective tissue. Later, on the tops of the caruncle septa, exposure of the connective tissue appears, so that in the second half of pregnancy on the surface region of the placentoma between the mother and daughter capillaries in spots only a layer of caruncle connective tissue and the thinnest layer of protoplasm of chorial epithelial cells appears. This type of correlation is close to a syndesmo-chorial one. In its main mass, however, the placentoma of dividing layers moves to preserve the caruncle epithelium and the relation between maternal blood and fetus is close to the epithelio-endothelial ones. In the interplacentomal regions the comparative disposition of capillaries is different. In not a single stage of

Card 2/3

--USER/General Biology - Individual Development .

B-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 1959

development can the placenta be regarded as an epithelio-
chorial or a syndesmo-chorial type in accordance with
Grosser's classification.

Card 3/3

KANTOROVA, V.I.

Development of the placenta of the cow. Trudy Inst. morf. zhiv.
no.30:101-109 '60. (MIRA 14:2)
(Placenta) (Cows) (Embryology--Mammals)

AUTHOR KANTOROVA V.I. PA - 2947
TITLE The Structure of Intercotyledonal Chorion in Bos Taurus.
(Stroyeniye mezhkotiledonnogo khoriona korovy (Bos taurus) -
Russian.)
PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 1, pp 233 - 236
(U.S.S.R.)
ABSTRACT Received: 6/1957 Reviewed: 7/1957
The purpose of this work is to show the changes in structure
of intercotyledonal chorion during pregnancy. This part, called
chorion laeve, of ruminants has not been so thoroughly investi-
gated as the parts consisting villus trees. With sheep and pigs
there are areoles which are intended to serve for the assimila-
tion of lacta uteri. They were found to exist with cows already
previously. Further important structures are the additional
tufts. The mechanism of development is not clear. The first
rudiments of areoles were observed in the area of the embryo
on the 27th day of pregnancy together with the rudiments of
primitive tufts. Beginning with the 7th month the chorion has
a wrinkled appearance. From the beginning numerous giant cells
appear in the areolar epithelium and in the parts between the
areoles. Their number decreases later. They are however, con-

CARD 1/3

PA - 2947

The Structure of Intercotyledonal Chorion in Bos Taurus.

served at the points of the areolar crests until birth. From the 3rd month onward the areolar epithelium is composed mainly of high cylindrical cells. With their protoplasmic protuberances these cells comprise the embryotroph which is always located between the areolar crests. At the same time extravasations of the blood from the uterus appear which are also phagocytized by the cells of the areolar epithelium. These cells also form glycogen. Its quantity attains its maximum in the 5th month and decreases in the 8th and 9th month. Additional tufts were first observed in the 3rd month. In the various amniotic sacs their duration, size, and number are determined to a great extent by the development of the main tufts. The smaller and less numerous the main tufts are the earlier and more numerous the additional ones will occur. In the 7th and 8th month the areoles and the newly developed tufts are similar to each other as regards their outer appearance as well as their sections.

The formation of the first tufts and areoles, the existence of structures during pregnancy, which, according to their shape,

CARD 2/3

PA - 2947

The Structure of Intercotyledonal Chorion in *Bos Taurus*.

are between the areoles and the villus trees, as well as a similar structure of the trees of the additional tufts and the areolar crests, - all this leads to the conclusion that the additional tufts possibly develop from the areoles.

(1 table with 4(5) illustrations, 13 citations from publications.)

ASSOCIATION: Institute of Animal Morphology A.N. SEVERTSOVS of the Academy of Science of the USSR. (Institut morfologii zivotnykh imeni A.N. Severtsova Akademii Nauk SSSR)

PRESENTED BY: Member of the Academy I.I. SHMALGAUZEN.

SUBMITTED: 26.10. 1956.

AVAILABLE: Library of Congress.

CARD 3/3

37613

S/638/61/003/000/001/005
D296/D307

27.1220

AUTHORS: Minayev, P.F., Antonova, A.M., Kantorova, V.I.,
Logvinova, O.F., and Mironova, A.P.

TITLE: Changes in the central nervous system after exposure
to ionizing radiation

PERIODICAL: Trudy Tashkentskoy konferentsii po mirnomu ispol'zova-
niyu atomnoy energii, v. 3, Tashkent, Izd-vo AN Uzb.
SSR, 1961, 53 - 58

TEXT: In continuation of earlier work the authors studied in greater detail changes in the nucleic acid content and histological changes in the cerebellum of guinea pigs after localized exposure to X rays. The DNA and RNA contents of the of the cerebellum (mean values in mg % for wet tissue) was estimated in 108 guinea pigs immediately after the exposure (i.e. before the appearance of cerebellar disorders); after 3-4 hours (initial phasis of changes); after 24 hrs. (peak of changes), as well as after 10, 15, 20 and 30 days; (period of gradual restoration). Immediately after the exposure the nucleic acid content appeared to be unchanged; after 3-4 hours a slight de-
Card 1/3

Changes in the central nervous ...

S/638/61/003/000/001/005
D296/D307

crease could be observed and after 24 hours the DNA content had decreased by 27.9 % and the RNA content by 26.4 % compared to the control levels. Owing to the cerebellar edema prevailing at that stage, however, the weight of the dried residue was 20 % lower in the experimental animals than in the control animals; hence the above values for wet tissue correspond to an actual decrease of only 7.9 % for DNA and of 6.4 % for RNA respectively. In the subsequent period (10-30 days) the nucleic acid level gradually returned to normal values. The cerebellum of 40 guinea pigs exposed to localized radiation in a dose of 9000 r and of 65 guinea pigs exposed to 16,000 r was investigated histologically. No gross changes were found immediately after exposure, but the microscope revealed some cell enlargement, beginning edema of the stroma and tigrolysis in some Purkinje cells of the ganglion cell layer. 3-6 hours after the exposure marked changes were found in all cortex layers; only a few cells retained their normal appearance. 24 hours after the radiation, changes culminated in the destruction of numerous cells: in some parts all Purkinje cells were destroyed, in others their number was diminished. In parts of the cerebellum more remote from the exposed area the changes were correspondingly less intensive. During the period of restoration
Card 2/3

Changes in the central nervous ...

S/638/61/003/000/001/005
D296/D307

(10-22 days) the cerebellum was of smaller size and of gritty consistency; it was covered by superficial hemorrhages and contained necrotic areas, clearly demarcated against the healthy tissue. Slightly changes or ectopic Purkinje cells still occurred. After exposure to 16,000 r the changes were of similar character but more intensive. There is 1 table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR (Institute of Biological Physics, AS USSR)

Card 3/3

ACCESSION NR: AT3013149

S/3018/63/000/000/0607/0616

AUTHOR: Skvortsova, R. I.; Kantorova, V. I.; Logvinova, O. F.

TITLE: Damage of certain oxidation processes in the mitochondrions and tissue of the cerebellum and the state of cerebellum mitochondrions at different periods after local irradiation

SOURCE: Tret'ya Vsesoyuznaya konferentsiya po biokhimi nervnoy sistemy*. Sbornik dokladov. Yerevan, 607-616

TOPIC TAGS: X-irradiation, cerebellum radiation damage, oxidative phosphorylation, cerebellum cell mitochondrion, purkinje cell mitochondrion, isoelectric point, citric acid level, finding citric acid level, Safronov's method, ribonucleoproteid isoelectric point change, purkinje cell change, cellular metabolism, krebs cycle, isoelectric point alkalinization, cerebellum metabolism

ABSTRACT: The cerebellum of male guinea pigs was X-irradiated locally with 8-9 kr dose (RUM-3 unit, 15 ma, 165 kv, 118-130 r/min, focal length 20 cm) to study the effects of radiation on oxidative phosphorylation, citric acid level, and isoelectric points of ribonucleoproteids in purkinje cell mitochondrions. Indices for

Card 1/3

ACCESSION NR: AT3013149

oxidative phosphorylation in the mitochondrions were oxygen consumption and process intensity (measured by mineral phosphate decrease). Citric acid level in cerebellum tissue was determined by Safronov's method which is based on changing citric acid into pentabromacetate by oxidation and bromination in the presence of bromine and manganese ions, and then using the color reaction of the newly formed pentabromacetate with pyridine and alkali as an index. Ribonucleoproteids of purkinje cell mitochondrions were fixated at different periods (20 min-5 mos) after irradiation to determine changes in their isoelectric points. Results show that the phases of cerebellum functional radiation damage are related to phase changes in cerebellum structure. The period of highest functional damage in the cerebellum corresponds to the highest period of oxidative phosphorylation inhibition in the mitochondrions and to the breaking of krebs cycle in its initial stage resulting in a sudden accumulation of citric acid. Also, at the same time the number of mitochondrions in the purkinje cells decreases and the isoelectric points of their ribonucleoproteids shift in an alkaline direction. The period when functional disorders of the cerebellum are attenuated coincides with relative normalization of the other indices. Data in this study concur with the literature position that alkalization of

Card 2/3

ACCESSION NR: AT3013149

isoelectric points in tissue is related to reduced metabolism intensity. Orig. art. has: 7 tables.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva
(Institute of Biological Physics, AN SSSR)

SUBMITTED: 00

DATE ACQ: 28oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 021

OTHER: 004

Card 3/3

KANTOROVICH, A.B. (Leningrad)

Special feature of the characteristics of optimal servo
systems. Avtom. i telem. 26 no.3:556-557 Mr '65.

(MIRA 18:6)

AUTHOR: Kuchinskaya, R. P. (Kuchinskaya, R. P.)
Shterenberg, G. P. (Leningrad)

TITLE: Calculation of the internal overloads on long-range power transmission lines using an electronic digital computer

SOURCE: AN S.S.R. Izvestiya. Energetika i transport, no. 5, 1964, 587-592

TOPIC TAGS: digital computer, D'Alembert method, Runge-Cutta method, power transmission discharge device, power overload, magnetic circuit, Euler method, memorization, computer programming

ABSTRACT: The use of electronic digital computers in the calculation of overloads on long-range power transmission lines calls for the solution of the ordinary differential equations describing the electromagnetic processes in the lines, and the equations of the line recorded in the D'Alembert form. Control

ACCESSION NR: AP4049218

0

defined approximately. The approximate definition of the derivatives at the time
of the report adds a certain amount of the ...

APPROVED FOR RELEASE: 06/13/2000 ENCL. SERVICE

Card 2/2

KADOMSKAYA, K.P. (Leningrad); KANTOROVICH, A.Kh. (Leningrad); CHEREMENBERG,
G.P. (Leningrad)

Calculation of internal overvoltages in long-distance power trans-
mission lines using digital computers. Izv. AN SSSR. Energ. i transp.
no.5:587-592 S-0 '64. (MIRA 17:12)

CA

KANTOROVICH, M. S.

11-B

Microdetermination of sulfonamides in blood. R. Kh. Bratkovskii and A. S. Kantoryukh. *Voenno-Med. Zhur.* 1946, No. 12, 23-6. —The method uses Darel's color reaction of 2-naphthol on diazotized sulfonamide. The sensitivity is good: down to 0.04 mg. sulfapyridine in 10 cc. Reagents: 1 part 20% alc. 2-naphthol, 5 parts 20% aq. NaOH and 4 parts distil. H₂O (this soln. keeps 1 week at most); 1 part 1% NaNO₂ and 1 part 2% HCl (made as needed and used within 5 min.). Standard reference solns. are made from 0.01 and 0.1 N K₂Cr₂O₇ mixed with a 30% Co(NO₂)₂ soln. to give a color-matching set for sulfonamide range of 0-20 mg./100 cc. The blood sample, 0.3-0.4 cc., is treated with Na oxalate, 0.1 cc. of the plasma is withdrawn, diltd. with 0.1 cc. H₂O, and treated with 0.05 cc. diazotizing soln. Allow it to stand 3 min. add 0.05 cc. naphthol soln., let stand 10 min. and measure in a colorimeter. The results were accurate to 0.5-1.0 mg./100 cc. of plasma. G. M. Kuznetsov

COMB. LITERATURE

OPER

638-55A METALLURGICAL LITERATURE CLASSIFICATION

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CA KANTOROVICH, A.S. 112

Microdetermination of blood and urine sulfonamides.
 M. Kh. Bratkovskii and A. S. Kantorovich (Leningrad
 Inst. Naval Hosp.). *Klin. Med. (U.S.S.R.)* 23, No. 1,
 70-73 (1947); cf. *C.A.* 42, 2006a. — A brief description of
 the method using NaNO_2 and β -naphthol. Detection of
 sulfonamides in blood and urine. I. B. Kagan and M. K.
 Rakhina. *Ibid.* 73-4. — A brief description of the method
 using NaNO_2 and α -naphthylamine. H. L. W.

ASB-SLA METALLOGICAL LITERATURE CLASSIFICATION

GROUP 01	GROUP 02	GROUP 03	GROUP 04	GROUP 05	GROUP 06	GROUP 07	GROUP 08	GROUP 09	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14	GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21	GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28	GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35	GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42	GROUP 43	GROUP 44	GROUP 45	GROUP 46	GROUP 47	GROUP 48	GROUP 49	GROUP 50	GROUP 51	GROUP 52	GROUP 53	GROUP 54	GROUP 55	GROUP 56	GROUP 57	GROUP 58	GROUP 59	GROUP 60	GROUP 61	GROUP 62	GROUP 63	GROUP 64	GROUP 65	GROUP 66	GROUP 67	GROUP 68	GROUP 69	GROUP 70	GROUP 71	GROUP 72	GROUP 73	GROUP 74	GROUP 75	GROUP 76	GROUP 77	GROUP 78	GROUP 79	GROUP 80	GROUP 81	GROUP 82	GROUP 83	GROUP 84	GROUP 85	GROUP 86	GROUP 87	GROUP 88	GROUP 89	GROUP 90	GROUP 91	GROUP 92	GROUP 93	GROUP 94	GROUP 95	GROUP 96	GROUP 97	GROUP 98	GROUP 99	GROUP 100
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KANTOROVICH, A.S. (Leningrad)

Calculation of basal metabolism. Klin.med. 34 no.4:75-77 Ap '56.
(MLRA 10:1)

(BASAL METABOLISM, determination,
calculations (Rus))

KOROVKIN, B.F.; BILLOV, N.A.; KANTOROVICH, A.S.

Problem of early diagnosis in acute myocardial infarct. Lab.delo 6
no.1:3-7 Ja-Fe '60. (MIRA 13:4)

1. Is Leningradskogo okruzhnogo voyennogo gospiatalya (nachal'mik
N.S. Sokolov).
(HEART--INFARCTION) (ENZYMES)

KOROVKIN, B.F., kand.med.nauk, podpolkovnik meditsinskoy sluzhby; BELOV, N.A.,
kand. med. nauk, podpolkovnik meditsinskoy sluzhby; KANTOROVICH, A.S.

Diagnostic value of transaminase and aldolase in the blood serum in
acute coronary insufficiency. Voen.-med. zhur. no.5:30-33 My '60.

(MIRA 13:7)

(CORONARY VESSELS—DISEASES)
(ALDOLASE)

(TRANSAMINASE)

KOROVKIN, B.F.; KANTOROVICH, A.S.

Fast method for semi-quantitative determination of sugar in the
urine. Lab: delo 7 nolO;17 0 '61. (MIRA 14:10)
(URINE—ANALYSIS AND PATHOLOGY)

SHESTAKOV, A.G., professor, redaktor; **KANTAROVICH, A.V.**, redaktor

[Plant nourishment and fertilizers; a collection of scientific papers on agricultural chemistry] Pitanie rastenii i udobrenie; sbornik nauchnykh rabot po agronomicheskoi khimii. Pod red. A.G. Shestakova. Moskva, 1954. 223 p. (NIRA 10:3)

1. Moscow. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva. Kafedra agronomicheskoy i biologicheskoy khimii. (Agricultural chemistry)

KANTOROVICH, ALEKSANDR VENIAMINOVICH.

И/5
831. 32
..KI'

ПО ТИМИРЯЗЕВСКОЙ АКАДЕМИИ (CONCERNING THE TIMIRYAZEVA ACADEMY)
ПОД ОБЩЕИМ РЕД. Г. М. ЛОЗЫ. МОСКВА, ГОСКУЛ'ПРОСВЕТИЗДАТ, 1955.

316 P. ILLUS., PORTS.

IVANOVICH, K.A., professor, redaktor; ~~KANTOROVICH, A.V., redaktor;~~
VANYUSHENKO, V., tekhnicheskiy redaktor

[Problems in practical laboratory exercises and independent work of students; a collection of papers] Voprosy metodiki laboratorno-prakticheskikh zaniatii i samostoiatel'noi raboty studentov; sbornik dokladov. Pod red. K.A.Ivanovicha. Moskva, 1956. 159 p.

(MIRA 10:2)

1. Moscow. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva.

(Agriculture--Study and teaching)

KANTOROVICH, Al.

Named after Timiriazov. Nauka i shizn' 23 no.9:45-48 '56.
(Moscow--Agriculture--Experimentation) (MLRA 9:10)

KANTOROVICH, Aleksandr Ivanovich, redaktor

[Timiriasev Academy] Timiriasevskiaia akademiia. Moskva, Moskovskiaia
sel'skokhoziaistvennaia akademiia imeni Timiriaseva. 1957. 118 p.
(Moscow--Agricultural colleges) (MIRA 10:11)

KANTOROVICH, A.V., agronom.

Scientific research in the Nikita State Botanical Garden. Nauka i
pered.op.v selkhoz. 7 no.9:36-40 S '57. (MIRA 10:10)
(Yalta--Botanical gardens) (Botanical research)

KANTOROVICH, A. V.

KANTOROVICH, A.V. (Kishlak Durmen', Tashkentskaya oblast').

**In an Uzbek village. Nauka i pered. op. v sel'khoz. 7 no.11:55-60
N '57. (MLBA 10:11)**

(Uzbekistan--Collective farms)

*Kantorovich, A.V.*AUTHOR: Kantorovich, A.V.

25-8-15/42

TITLE: The Green Laboratory (Zelenaya laboratoriya)

PERIODICAL: Nauka i Zhizn', 1957, # 8, pp 29-31 (USSR)

ABSTRACT:

The Nikitskiy Botanical Garden, on the shores of the Crimea, with their host of different species of plants and herbs, offer great possibilities for research. In this connection, to work, "Flora of Crimea" (Flora Kryma), which was compiled with combined efforts of various eminent botanists, such as Kh.Kh. Steven, N.A. Gartvis, N.I. Kuznetsov, E.V. Vul'f, V.P. Maleyev and S.S. Stankov, should be mentioned.

Today, research with regard to Crimean flora is being carried out by Nikitskiy botanists headed by M.I. Rubtsov, Doctor of Biological Sciences. The acclimatization of new decorative plants is of great practical importance in landscaping. The dendrologist A.I. Anisimova in her work, analyzed and described the introduction and acclimatization of new species in the Nikitskiy Gardens during the last 40 years. N.D. Kostetskiy and I.A. Zabelin should be mentioned as experts in growing roses. Communication with foreign biological institutes has realized a favorable influence on the creation of new types of roses. Another part of the research work being done is the improvement of the quality of fruit, thus

Card 1/2

The Green Laboratory

25-8-15/42

the trade-mark "Selection of Nikitskiy Garden." is highly regarded and wide-known. The names of I.N. Ryabov, with regard to peaches, and Klavdiya Fedorovna Kostina, with regard to plums and apricots, deserve to be mentioned here. They applied the creative methods of I.V. Michurin with regard to selection. Many kinds of fruit created by means of crossing the different species in experiments carried out by I.N. Ryabov and K.F. Kostina during their 30 years at the Nikitskiy Botanic Garden represents a remarkable achievement for the collective farms and sovkhozes in the Crimea. There are four photographs.

AVAILABLE: Library of Congress

Card 2/2

KANTOROVICH, A., agronom.

Scientific worker. Nauka i pered. op. v sel'khoz. 8 no.3:66-70 Mr
'58. (MIRA 11:3)
(Uzbekistan--Agriculture)

KANTOROVICH, A., agronom

Jute and hemp. Nauka i pered. op. v sel'khoz. 8 no.8:50-53 Ag '58.
(Jute) (Hemp)

KROKHALOV, Fedor Sergeyevich, doktor ekonom.nauk; KANTOROVICH, A.V.,
red.; **FREIDMAN, S.M., red.; PRYZNER, V.I., tekhn.red.**

[Outline history of farming systems] O sistemakh zemledeliia;
istoricheskii ocherk. Moskva, Gos.isd-vo sel'khoz.lit-ry, 1960.
430 p. (MIRA 13:12)

(Agriculture)

SOBOLEV, Sergey Stepanovich, prof., doktor sel'skokhoz.nauk;
KANTOROVICH, A.V., red.; AFROSHCHENKO, L.Ye., tekhn.red.

[Soil erosion and its control] Eroziia pochv i sry bor'by
s nei. Moskva, Izd-vo "Znanie," 1961. 45 p. (Vsesoiuznoe
obshchestvo po rasprostraneniю politicheskikh i nauchnykh
znaniy. Ser.5, Sel'skoe khozistvo, no.2).

(Erosion)

(MIRA 14:1)

KANTOROVICH, Aleksandr Veniaminovich; STAROSTENKOVA, M.M., red.;
NAZAROVA, A.S., tekhn. red.

[Spring garden]Sad vesny. Moskva, Izd-vo "Znanie," 1962. 47 p.
(Novoe v zhizni, nauke, tekhnike. VIII Seria: Biologiya i me-
ditsina, no.21) (MIRA 15:11)
(Nikita (Crimea))--Botanical gardens)

DUNIN, Mikhail Semenovich, doktor sel'khoz.nauk; LEONOVA, T.S.,
red.; KANTOROVICH, A.V., spets. red.; ATROSHCHENKO, L.Ye.,
tekhn. red.

[Self-protection of plants against diseases] Samozashchita
rastenii ot boleznei. Moskva, Izd-vo "Znanie," 1963. 47 p.
(Novoe v zhizni, nauke, tekhnike. V Serii: Sel'skoe kho-
ziaistvo, no.15) (MIRA 16:7)
(Plants--Disease and pest resistance)

MAYSURIYAN, N.A., akademik, red.; KANTOROVICH, A.V., red.

[Lupine; collection of studies from the Departments of
Plant Breeding, Agricultural Chemistry and Botany] Lupin;
sbornik nauchnykh rabot kafedr rasteniyevodstva, agrokhimii
i botaniki. Moskva, 1962. 400 p. (MIRA 18:3)

1. Moscow. Moskovskaya sel'skokhozyaystvennaya akademiya
imeni K.A.Timiryazeva. 2. Vsesoyuznaya akademiya sel'sko-
khozyaystvennykh nauk imeni V.I.Lenina (for Maysuryan).

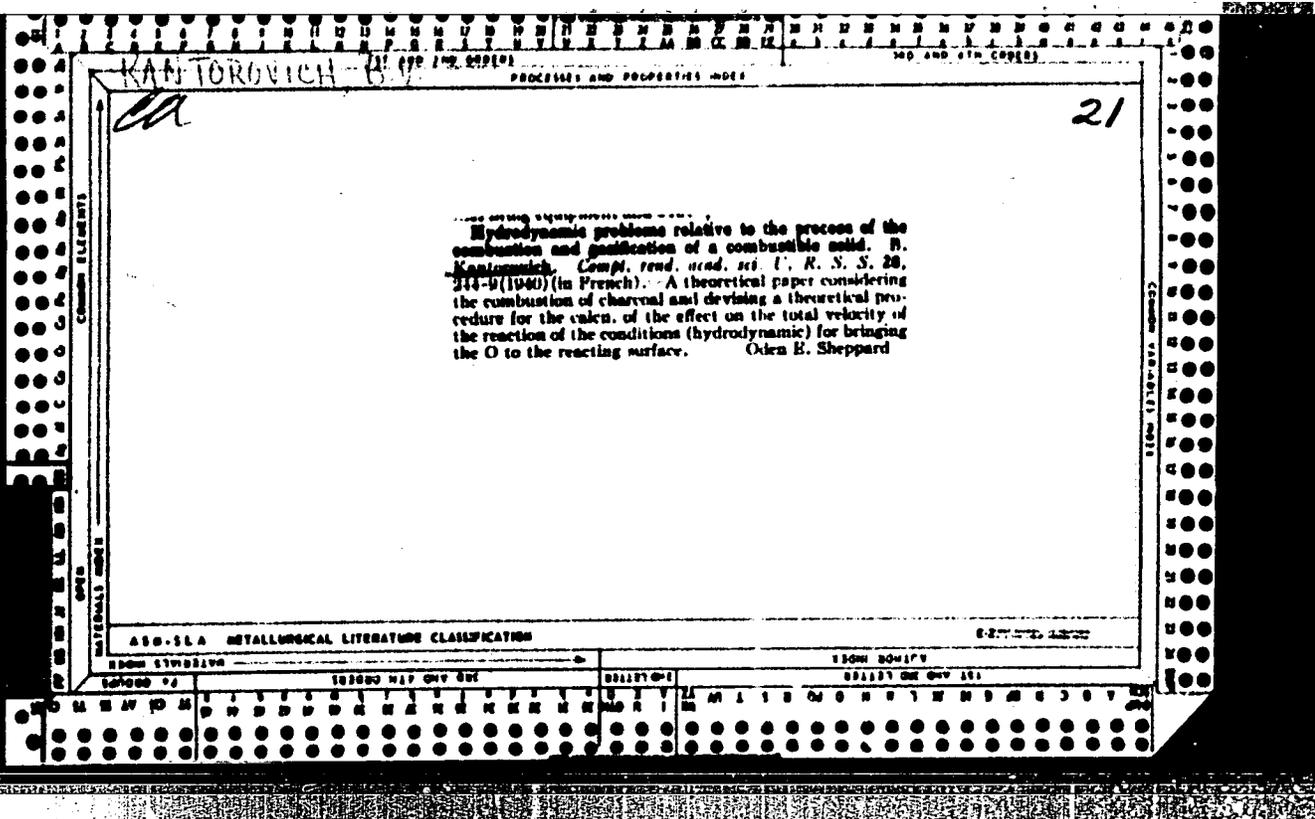
KANTOROVICH, Aleksandr Veniaminovich; ISAYEV, V.A., red.

[Flag officer of Soviet agronomy] Flagman sovetskoi agromonii. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauka i tekhnika. V Serii: Sel'skoe khoziaistvo, no.21)
(MIRA 18:10)

KANTOROVICH, N.V.

Effect of hypoxia and other factors of the high-mountain area of
the Tien Shan on the course of mental diseases. Trudy Tadzh. med.
inst. 62:97-102 '63. (MIRA 17:12)

1. Kirgizskiy meditsinskiy institut, Frunze.



KANTOROVICH, B. V.

"Heterogeneous Process in the Layer of Solid Particles Used as a Chemical Reagent," Dokl. AN SSSR, 35, No.6, 1942.

Krshyshanovskiy Inst. of Energetics, AS USSR

Power Engineering Inst. Imeni G. M. Krzhizhanovskiy,
Acad. Sci. USSR (-1944-)

"Thermal Conditions of the Gasification Process
in a Coal Bed (Air Gas)," Iz. Ak. Nauk SSSR, Otdel.
Tekh. Nauk, No. 9, 1944

BR-52052019

KANTOROVICH, B. V.

Combustion in a coal channel with simultaneous secondary reactions. B. V. Kantorovich. *Bull. acad. sci. U.R.S.S., Classe sci. 1948*, 170-84 (in Russian); *C. A. B. 4226*.—Calcus. are made of the distribution of O_2 and CO_2 in the combustion of C in an isothermally heated cylindrical coal channel of radius R through which O_2 is passed at a const. rate of flow v , with a concn. c_0 at the inlet, by starting with the diffusion equations for O_2 and CO_2 and taking into account, in the first place, the heterogeneous combustion and the simultaneous reduction of CO_2 at the wall. Solution of the differential equations by the Laplace transformation method leads to exponential expressions for the stationary concn. c of O_2 and CO_2 (1) along the channel (coordinate x/R) and (2) over its sections (coordinate r/R), involving c_0 , v , the coeffs. of diffusion D and the reaction rate const., and permits construction of the theoretical c/c_0 curves (1) against x/R for various r/R , (2) against r/R for various x/R ; curves are also given for (3) c_0/R , the ratio of the concn. at the wall and the mean concn. in the section, as a function of x/R , for O_2 and CO_2 . Curves (1) for O_2 show a steady fall with increasing x/R , the faster the higher r/R ; for CO_2 , c/c_0 has a max. at about $x/R = 0.8$. Curves (2) show the concn. field of O_2 over the cross section to vary but little along the channel and to be characterized by a sharp decrease of the concn. at the wall as compared with that at the axis. In contrast to the O_2 curves, the cross-sectional concn. field of CO_2 changes little in the direction of the gas flow (with increasing x/R), the curves (2) passing from decreasingly convex (to the r/R axis) to slightly concave (from about

$x/R = 0.8$ up); this is also shown by the curves (3) for CO_2 , c_0/R remains const. (approx. = 1.0) along the whole length of the channel, except for the rapid fall in the initial segment (up to $x/R = 0.8$). Reduction of CO_2 takes place in the "kinetic" region, extending over the major part of the channel, while the combustion lies in the "diffusion" region; in the initial segment of the channel (at $x = 0$), $c_0 = c$; hence (from $h'/h = c_0/v$) $h' = h$, i.e., the total reaction rate const. is equal to the kinetic const. and is independent of diffusion for both the combustion and the reduction; in this initial segment (the length of which depends on D/vR), the ratio h'/h changes sharply. The considerations developed can be adapted to gasification of C in a layer of coal lumps, with allowance for the peculiarity of the gas flow in that case. The theory is further developed to include the reverse reaction $CO_2 + C \rightarrow 2CO$; this requires addnl. boundary conditions, and results in an addnl. term in the expression for c of CO_2 ; finally, a formula is derived to allow for simultaneous homogeneous combustion of CO in the vol. of the channel.

N. Thon

A 13-55A METALLURGICAL LITERATURE CLASSIFICATION

1300	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000	6100	6200	6300	6400	6500	6600	6700	6800	6900	7000	7100	7200	7300	7400	7500	7600	7700	7800	7900	8000	8100	8200	8300	8400	8500	8600	8700	8800	8900	9000	9100	9200	9300	9400	9500	9600	9700	9800	9900
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KANTOROVICH, B.V., doktor tekhnicheskikh nauk, professor.

Work of the Commission on Gas Installations in conjunction with
the Krshishanovskii Power Engineering Institute of the Academy
of Sciences of the U.S.S.R. Biul.Kom.po gaspsil.nst. no.2:42-45
'47. (MLRA 9:12)

(Gas producers) (Power engineering)

KANTOROVICH, B. V.

USSR/Fuels, Pulverized
Combustion

Apr 1947

"On the Burning and Gasification of Pulverized
Fuel," B. V. Kantorovich, 14 pp

"Izv Ak Nauk Tekh Nauk" No 4 - p. 361-73

Setting up of the differential equations describing
the subject phenomena, their theoretical and
numerical solutions, with graphs and tables.

9895

SECRET

KANTOROVICH, B. V.

Initial Heating of Fuel in Shaft Furnaces and Gas
 Generators, B. V. Kantorovich, Energovos Inst
 Khimi G. N. Irzhitskoyevy, Acad Sci USSR, 10 pp
 "Izv Akad Nauk SSSR, Otdel Tekh Nauk" No. 1
 1947
 Furnace shafts and direct-process gas generators
 dry and preheat fuel before it is admitted to com-
 bustion chamber. Pays particular attention to pre-
 heating the fuel. Discusses preheating small- and
 large-size fuel, and coefficient of heat exchange.
 Gives practical example for shaft furnaces.

Edited by Academician M. V. Klyafor at the Energy-
 Chemical Section of Scientific Council, Energovos
 Institute, 1947. Published, 8 Jul 1947.

PROCEEDINGS AND PROCEEDINGS INDEX

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KANTOROVICH, B.V.

Drying of Fuel in Furnaces and Gas Producers. (In Russian.) B. V. Kantorovich. Investiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh Nauk (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), Mar. 1948, p. 317-334. No. 3.

Presents theory of above under different conditions and with different shapes of solid fuel (lumps, plates, cylinders, and spheres). A series of equations are proposed and sample calculations are included.

Energetics Inst-in Kuzhneurovskiy, AS USSR

AS B. S. S. S. R. METALLURGICAL LITERATURE COMPILATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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The motion of a carbon particle during its combustion in an air stream. *Zhurnal Prikladnoi Mekhaniki i Fiziki*, No. 1, 1970, pp. 1-4. *Ann. Acad. Sci. USSR, Div. Phys. Chem., Engl. transl.* The relative linear velocity of a particle of burning C is characterized in terms of the ratio of areas of inner reaction surface and the fraction of the original particle volume remaining. The math. treatment is based on considerations of particle dynamics and the kinetics of C combustion. . . . H. K. Livingston .

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PA 12/49T48

USSR/Engineering
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"Initial Heating of Fuel in Reverse Type Gas
Generators," B. V. Kantorovich, Energetics Inst
imeni G. M. Khrushchevskiy, Acad Sci USSR, 7¹ PP

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 7

Describes difference between reverse and direct
processes in generators. Deduces design princi-
ples. Gives performance examples. Submitted
8 Jul 47.

12/49T48

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Gidravlika, gidravlicheskie i vozdukhoduvnye mashiny. Moskva, Metallurgizdat, 1950.
552 p.

Hydraulics; hydraulic and blowing machines.

SO: Manufacturing and Mechanical Engineering in the Soviet Union; Library of Congress, 1953.

M. J. R. D. V. C. H. B. V.

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CA

The effect of gas pressure and concentration on the length of the reaction zone in heterogeneous processes. B. V. Kantorovich (Inst. Obyektivn. Ispytaniy, Akad. Nauk S.S.S.R., Akad. Nauk, S.S.S.R.). *Doklady Akad. Nauk S.S.S.R.* 71, 318-19(1960); cf. *C.A. 62*, (1967).—Math. equations are derived for several reaction conditions involving layers of solid particles or materials suspended in flames of reacting gases. Conclusions are: (1) For first-order reaction in a layer of solid particles, x , the length of the reaction zone, is independent of pressure in the kinetic region but directly proportional to pressure in the diffusion region; in either region, x is independent of the relative wt.-conc. of gas. (2) For first-order reaction in a stream of solid material, x is inversely proportional to pressure in the kinetic region but independent of pressure in the diffusion region; in either region, x is inversely proportional to the relative wt.-conc. of reactive gas. (3) In reactions accompanied by a vol. increase occurring in a layer of solid particles, x is independent of pressure in the kinetic region but is directly proportional to pressure in the diffusion region; x increases with increasing initial vol.-conc. (4) In reactions accompanied by a vol. increase occurring in a stream of solid material, x is inversely proportional to pressure in the kinetic region but independent of pressure in the diffusion region; x decreases with increasing initial vol.-conc. H. K. Livingston